



(19)

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 790 324 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
20.08.1997 Bulletin 1997/34

(51) Int. Cl.⁶: C22C 19/05

(21) Application number: 97102531.7

(22) Date of filing: 17.02.1997

USP 5,900,078

(84) Designated Contracting States:
DE FR GB SE

(30) Priority: 16.02.1996 JP 54054/96

(71) Applicant: **EBARA CORPORATION**
Ohta-ku, Tokyo (JP)

(72) Inventors:
• Yakuwa, Hiroshi
Fujisawa-shi, Kanagawa-ken 251 (JP)
• Nakahama, Shuhei
Ohta-ku, Tokyo 144 (JP)

- Miyasaka, Matsuho
Fujisawa-shi, Kanagawa-ken 251 (JP)
- Kawasaki, Masamichi
Ohta-ku, Tokyo 144 (JP)
- Narita, Toshio
Kita-ku, Sapporo-shi, Hokkaido 060 (JP)

(74) Representative: Geyer, Ulrich F., Dr. Dipl.-Phys. et al
WAGNER & GEYER,
Patentanwälte,
Gewürzmühlstrasse 5
80538 München (DE)

(54) **High-temperature sulfidation-corrosion resistant nickel-base alloy**

(57) A high-temperature sulfidation-corrosion resistant nickel-base alloy includes 12 ~ 15 weight % of cobalt, 18 ~ 21 weight % of chromium, 3.5 ~ 5 weight % of molybdenum, 0.02 ~ 0.1 weight % of carbon, at most 2.75 weight % of titanium, and at least 1.6 weight % of aluminum. The remainder is essentially of nickel except for impurities. The high-temperature sulfidation-corrosion resistant nickel-base alloy has sufficient high-temperature strength and is highly resistant to a high-temperature sulfidation corrosion.

EP 0 790 324 A1